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5 April 67

MEMORANDUM FOR THE RECORD

25X1A2g SUBJECT: Life Support Equipment Meeting

25X1A2g

1. A meeting was held at on 29 March 1967 to discuss Life Support equipment with the following participants.

25X1A9a 25X1A6c

25X1D0b

25X1A6c

25X1A6c

25X1A2q

5X1A9a X1A9a

25X1A2q

2. The meeting served a threefold purpose. First, a review and status report on the development of the the ejection seat, parachute, seat kit, and support equipment was presented. Secondly, this review served to bring the representative up-to-date on position with respect to the life support systems. Finally, experiences with similar equipment at were discussed with and so that problem areas needing resolution during development could be identified. The requirements for developmental and qualification testing were discussed and plans for final configuration meetingswere tentatively established. The following paragraphs describe the items discussed.

25X1D0b 25X1D0b 25X1D0b 25X1D0b

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design emphasis on the modifications of the configuration has been to increase pilot comfort and reduce fatigue. By starting with the the requirement for elaborate windblast, ejection, or parachute drop tests have been eliminated since the is qualified for much greater stresses than those which would be encountered in the U-2R's flight envelope. The majority of modifications to be included in the have also been qualified in other pressure suit programs such as NASA's Gemini program, etc. Other than routine factory qualification testing, there remains to be answered only the question of how effective the proposed PPA will be in providing maximum comfort and fatigue

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prevention. This question can only be answered by actual experience. elaborated on several minor problems encountered on the which require attention during the development of the which have already been discussed with

25X1A2g 25X1A2g 25X1D0b b. Seat Kit: The seat kit/emergency oxygen supply which is obtaining specifications and costs on from will be basically the same as the seat kit. The only modifications included will be minor changes involving improved maintenance and servicing provisions. No developmental testing or escape system tests will be required since the seat kit has been fully qualified in these respects.

25X1D0b 25X1D0b c. Parachute: No changes are required from the configured parachute, which is fully qualified as a part of the zero-zero to maximum speed/altitude escape system.

25X1D0b 25X1D0b d. AGE: No changes in ground support and test equipment for the are anticipated.

25X1A2g 25X1D0b e. Ejection Seat/System: Although the basic escape system proposes to use in the U-2R is the same as the system, there are significant changes, modifications and additions required. One of the major problem areas to be resolved is the adequate and reliable functioning of the control column thruster. The control column must be cleared by the pilot's legs whether the primary or alternate ejection handle is used and whether or not throughthe-canopy ejection occurs. Providing safe through-the-canopy ejection capability is a requirement to be met and will involve qualification tests also. Finally, a problem may exist with reference to proper fore-and-aft positioning of the ejection seat to meet the requirements for optimum positioning of the

25X1D0b 25X1D0b 25X1A2g

Since no drivers have been in the mockup cockpit this question remains unanswered. If it is anticipated that such pilots will fly this aircraft it would be most advantageous to fit the with a full pressure suit and evaluate his positioning and ability to perform in the U-2R cockpit.

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25X1A9a

3. It is anticipated that a follow-up meeting between and Life Support representatives will be scheduled for late April to finalize a list of qualification and test requirements as well as the final desired configuration of equipment to present to A meeting with would be scheduled to follow for discussion of these combined requirements.

And Anticipated that a follow-up meeting between and Life Support representatives will be requested if this is determined to be required.

Capt. USAF BSC ASD/R&D/OSA

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ASD/OSA/ pca (5 Apr 67)

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